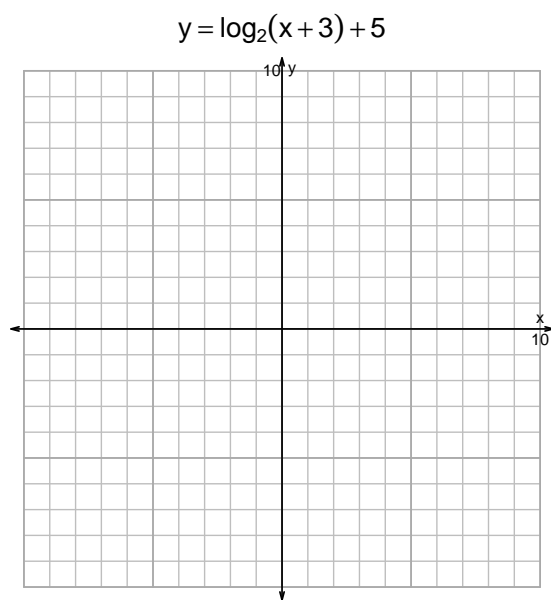
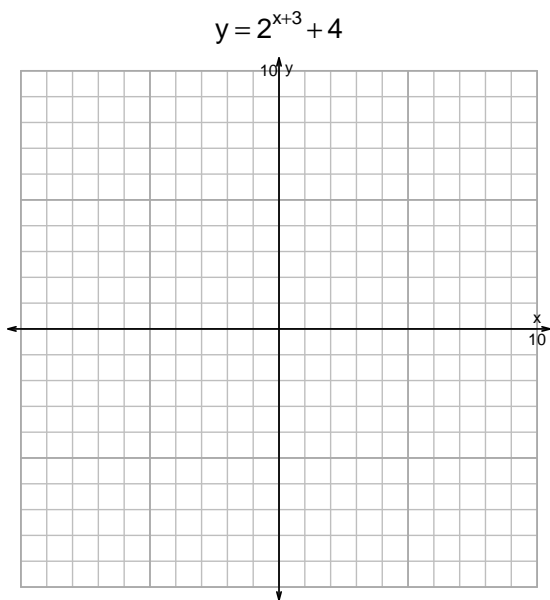


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v269)

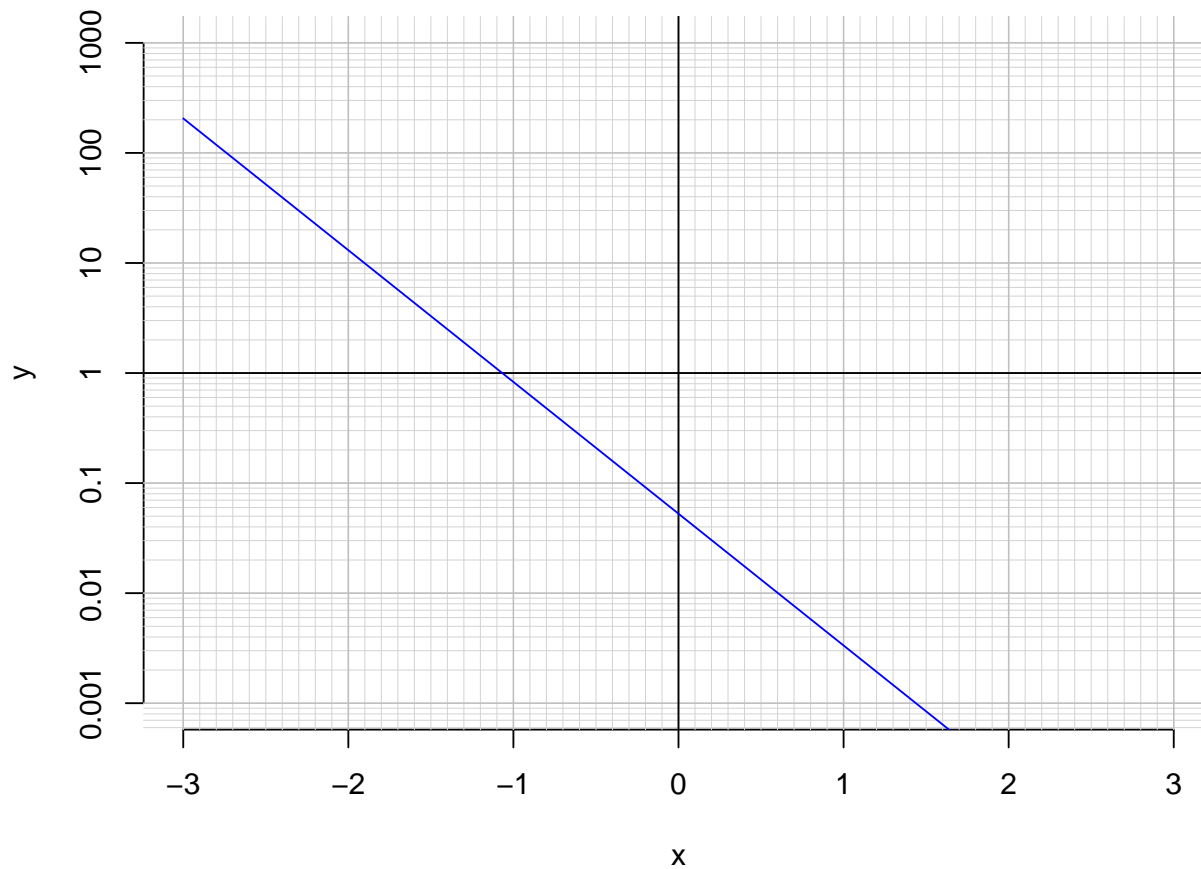
1. Graph $y = 2^{x+3} + 4$ and $y = \log_2(x + 3) + 5$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-13 = \left(\frac{-7}{5}\right) \cdot 10^{-4t/3}$$

3. An exponential function $f(x) = 0.0527 \cdot e^{-2.76x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(0.1)$.
- b. Express $f^{-1}(x)$, the inverse of f .
- c. Using the plot above, evaluate $f^{-1}(90)$.